

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	226	calpain near4 (protease or peptidase or proteinase)	USPAT	OR	OFF	2006/07/26 21:21
L2	112	calpain near4 (human or sapien)	USPAT	OR	OFF	2006/07/26 21:21
L3	56	I1 and I2	USPAT	OR	OFF	2006/07/26 21:21
L4	5	calpain near4 (chick or chicken or gallus)	USPAT	OR	OFF	2006/07/26 21:22
L5	3	I3 and I4	USPAT	OR	OFF	2006/07/26 21:22

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=> s calpain (4A) (protease or peptidase or proteinase)  
L1 5199 CALPAIN (4A) (PROTEASE OR PEPTIDASE OR PROTEINASE)

=> s calpain (4A) (human or sapien)  
L2 1433 CALPAIN (4A) (HUMAN OR SAPIEN)

=> s 1 and 2  
L3 11094621 1 AND 2

=> s l1 and l2  
L4 446 L1 AND L2

=> s calpain near4 (chick or chicken or gallus)  
MISSING OPERATOR 'NEAR4 (CHICK'  
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=> s calpain (4A) (chick or chicken or gallus)  
L5 145 CALPAIN (4A) (CHICK OR CHICKEN OR GALLUS)

=> s l4 and l5

L6                    7 L4 AND L5

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DUPLICATE PREFERENCE IS 'MEDLINE, EMBASE, BIOSIS, CAPLUS'

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L7                    4 DUPLICATE REMOVE L6 (3 DUPLICATES REMOVED)

=> d l7 1-4 bib ab

L7    ANSWER 1 OF 4            MEDLINE on STN                    DUPLICATE 1  
AN    1999339989            MEDLINE  
DN    PubMed ID: 10409436  
TI    CAPN11: A calpain with high mRNA levels in testis and located on  
      chromosome 6.  
AU    Dear T N; Moller A; Boehm T  
CS    Max-Planck Institute for Immunobiology, Stuebeweg 51, Freiburg,  
      D-79108,  
      Germany.. dear@immunbio.mpg.de  
SO    Genomics, (1999 Jul 15) Vol. 59, No. 2, pp. 243-7.  
      Journal code: 8800135. ISSN: 0888-7543.  
CY    United States  
DT    Journal; Article; (JOURNAL ARTICLE)  
LA    English  
FS    Priority Journals  
OS    GENBANK-AJ242832  
EM    199909  
ED    Entered STN: 21 Sep 1999  
      Last Updated on STN: 21 Sep 1999  
      Entered Medline: 8 Sep 1999  
AB    Calpains are a superfamily of related proteins, some of which  
      have been  
      shown to function as calcium-dependent cysteine proteases. In  
mammals,  
      eight different calpains have been identified. We report the  
      identification of a new mammalian calpain gene, CAPN11. The  
predicted  
      protein possesses the features typical of calpains including  
      potential protease and calcium-binding domains. The CAPN11 mRNA  
      exhibits a highly restricted tissue distribution with highest  
levels  
      present in testis. Radiation hybrid mapping localized the gene  
to human  
      chromosome 6, within a region mapped to p12. Phylogenetic  
analysis  
      suggests that, in mammals, the predicted CAPN11 protein is most  
closely  
      related to CAPN1 and CAPN2. However, of the calpain sequences  
available,  
      the predicted CAPN11 sequence exhibits greatest homology to the

chicken micro/m calpain. Thus CAPN11 may be the human orthologue of micro/m calpain. The discovery of this new calpain emphasizes the complexity of the calpain family, with members being distinguished on the basis of protease activity, calcium dependence, and tissue expression.  
Copyright 1999 Academic Press.

L7 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1993:644149 CAPLUS

DN 119:244149

TI Additional peptidyl diazomethyl ketones, including biotinyl derivatives,  
which affinity-label calpain and related cysteinyl proteinases

AU Wikstrom, Peter; Anagli, John; Angliker, Herbert; Shaw, Elliott

CS Friedrich Miescher-Inst., Basel, CH-4002, Switz.

SO Journal of Enzyme Inhibition (1993), 6(4), 259-69

CODEN: ENINEG; ISSN: 8755-5093

DT Journal

LA English

AB Calpain can be irreversibly inactivated by peptidyl diazomethyl ketones in

which the peptide portion contains a penultimate leucine residue. Some

new derivs. of this type were synthesized and examined for their rates of

inactivation of chicken gizzard and human blood platelet calpain. Two derivs. containing a C-terminal biotin (Biot) residue,

Biot-Aca-Leu-TyrCHN2 and Biot-Aca-Leu-Leu-TyrCHN2 (Aca =  $\epsilon$ -aminocaproic acid), were also prepared in the expectation that their application to the study of the function of calpain and related proteases will prove fruitful.

L7 ANSWER 3 OF 4 MEDLINE on STN

AN 93359993 MEDLINE

DN PubMed ID: 1284963

TI Additional peptidyl diazomethyl ketones, including biotinyl derivatives,

which affinity-label calpain and related cysteinyl proteinases.

AU Wikstrom P; Anagli J; Angliker H; Shaw E

CS Friedrich Miescher-Institut, Basel, Switzerland.

SO Journal of enzyme inhibition, (1992) Vol. 6, No. 4, pp. 259-69.

Journal code: 8709734. ISSN: 8755-5093.

CY Switzerland

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199309

ED Entered STN: 8 Oct 1993  
Last Updated on STN: 3 Mar 2000  
Entered Medline: 21 Sep 1993  
AB Calpain, the calcium-activated cysteinyl proteinase,  
can be irreversibly inactivated by peptidyl diazomethyl ketones  
in which  
the peptide portion contains a penultimate leucine residue.  
Some new  
derivatives of this type have been synthesized and examined for  
their  
rates of inactivation of chicken gizzard and human  
platelet calpain. Two derivatives containing a C-terminal  
biotin residue, Biot-Aca-Leu-TyrCHN2 and  
Biot-Aca-Leu-Leu-TyrCHN2, have  
also been prepared in the expectation that their application to  
the study  
of the function of calpain and related proteases will  
prove fruitful.

L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 1988:586041 CAPLUS  
DN 109:186041

TI Myelin-associated calpain II  
AU Yanagisawa, Katsuhiko; Sato, Shuzo; O'Shannessy, Daniel J.;  
Quarles,  
Richard H.; Suzuki, Koichi; Miyatake, Tadashi  
CS Brain Res. Inst., Niigata Univ., Niigata, Japan  
SO Journal of Neurochemistry (1988), 51(3), 803-7  
CODEN: JONRA9; ISSN: 0022-3042  
DT Journal  
LA English  
AB Anti-chicken muscle calpain (Ca-activated neutral  
protease) antibody (ACAb) was absorbed by purified human brain  
myelin when titrated by ELISA, suggesting the close association  
of the  
protease with myelin. To confirm this, Ca-dependent protease  
was extracted  
from myelin membrane and purified on a Ph Sepharose CL 4B  
column. It was  
activated by  $\text{Ca}^{2+}$  in the millimolar range, and therefore was  
determined to be  
calpain II. This enzyme fraction was electrophoresed and  
immunostained  
with ACAb, resulting in staining as a single band with apparent  
mol. weight  
of 80K. This protease degraded exogenous myelin-associated  
glycoprotein.  
Apparently, calpain II is bound to myelin membrane and is  
involved in the  
turnover of myelin proteins.



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☐ 1: Turner MD, Cassell PG, Hitman GA.

Related Articles, Links

Calpain-10: from genome search to function.  
Diabetes Metab Res Rev. 2005 Nov-Dec;21(6):505-14. Review.  
PMID: 16028216 [PubMed - indexed for MEDLINE]

☐ 2: Groll M, Huber R.

Related Articles, Links

Inhibitors of the eukaryotic 20S proteasome core particle: a structural approach.  
Biochim Biophys Acta. 2004 Nov 29;1695(1-3):33-44. Review.  
PMID: 15571807 [PubMed - indexed for MEDLINE]

☐ 3: Friedrich P, Tompa P, Farkas A.

Related Articles, Links

The calpain-system of Drosophila melanogaster: coming of age.  
Bioessays. 2004 Oct;26(10):1088-96. Review.  
PMID: 15382138 [PubMed - indexed for MEDLINE]

☒ 4: Goll DE, Thompson VF, Li H, Wei W, Cong J.

Related Articles, Links

The calpain system.  
Physiol Rev. 2003 Jul;83(3):731-801. Review.  
PMID: 12843408 [PubMed - indexed for MEDLINE]

☐ 5: Baud L, Fouqueray B, Bellocq A, Peltier J.

Related Articles, Links

[Calpains participate in inflammatory reaction development]  
Med Sci (Paris). 2003 Jan;19(1):71-6. Review. French.  
PMID: 12836194 [PubMed - indexed for MEDLINE]

☐ 6: Maki M, Kitaura Y, Satoh H, Ohkouchi S, Shibata H.

Related Articles, Links

Structures, functions and molecular evolution of the penta-EF-hand Ca<sup>2+</sup>-binding proteins.  
Biochim Biophys Acta. 2002 Nov 4;1600(1-2):51-60. Review.  
PMID: 12445459 [PubMed - indexed for MEDLINE]


☒ 7: Carragher NO, Frame MC.

Related Articles, Links

Calpain: a role in cell transformation and migration.  
Int J Biochem Cell Biol. 2002 Dec;34(12):1539-43. Review.  
PMID: 12379276 [PubMed - indexed for MEDLINE]


☐ 8: Glading A, Lauffenburger DA, Wells A.

Related Articles, Links

-  Cutting to the chase: calpain proteases in cell motility.  
Trends Cell Biol. 2002 Jan;12(1):46-54. Review.  
PMID: 11854009 [PubMed - indexed for MEDLINE]


☐ 9: [Reverter D, Sorimachi H, Bode W.](#)

[Related Articles, Links](#)

-  The structure of calcium-free human m-calpain: implications for calcium activation and function.  
Trends Cardiovasc Med. 2001 Aug;11(6):222-9. Review.  
PMID: 11673052 [PubMed - indexed for MEDLINE]


☐ 10: [Donkor IO.](#)

[Related Articles, Links](#)

-  A survey of calpain inhibitors.  
Curr Med Chem. 2000 Dec;7(12):1171-88. Review.  
PMID: 11032966 [PubMed - indexed for MEDLINE]


☐ 11: [Mair J.](#)

[Related Articles, Links](#)

-  Tissue release of cardiac markers: from physiology to clinical applications.  
Clin Chem Lab Med. 1999 Nov-Dec;37(11-12):1077-84. Review.  
PMID: 10726815 [PubMed - indexed for MEDLINE]


☐ 12: [Kinbara K, Sorimachi H, Ishiura S, Suzuki K.](#)

[Related Articles, Links](#)

-  Skeletal muscle-specific calpain, p49: structure and physiological function.  
Biochem Pharmacol. 1998 Aug 15;56(4):415-20. Review.  
PMID: 9763216 [PubMed - indexed for MEDLINE]


☐ 13: [Maki M.](#)

[Related Articles, Links](#)

-  [A family of the intracellular calcium-binding proteins with five EF-hand motifs]  
Seikagaku. 1998 Mar;70(3):202-7. Review. Japanese. No abstract available.  
PMID: 9591464 [PubMed - indexed for MEDLINE]


☐ 14: [Tagawa K, Sorimachi H, Ishiura S, Suzuki K, Tagawa K, Seyama Y.](#)

[Related Articles, Links](#)

-  [Calpain super family and its interacting-proteins]  
Tanpakushitsu Kakusan Koso. 1997 Oct;42(14 Suppl):2165-74. Review. Japanese. No abstract available.  
PMID: 9366193 [PubMed - indexed for MEDLINE]


☐ 15: [Turk B, Turk V, Turk D.](#)

[Related Articles, Links](#)

-  Structural and functional aspects of papain-like cysteine proteinases and their protein inhibitors.  
Biol Chem. 1997 Mar-Apr;378(3-4):141-50. Review.  
PMID: 9165064 [PubMed - indexed for MEDLINE]

☒ 16: [Saido TC, Sorimachi H, Suzuki K.](#)

[Related Articles, Links](#)


-  Calpain: new perspectives in molecular diversity and physiological-pathological involvement.  
FASEB J. 1994 Aug;8(11):814-22. Review.  
PMID: 8070630 [PubMed - indexed for MEDLINE]

☐ 17: [Sorimachi H, Saido TC, Suzuki K.](#)

[Related Articles, Links](#)


New era of calpain research. Discovery of tissue-specific calpains.



 FEBS Lett. 1994 Apr 18;343(1):1-5. Review.  
PMID: 8163008 [PubMed - indexed for MEDLINE]

☐ 18: [Kikkawa U, Kishimoto A, Nishizuka Y.](#)

[Related Articles, Links](#)

 The protein kinase C family: heterogeneity and its implications.  
Annu Rev Biochem. 1989;58:31-44. Review. No abstract available.  
PMID: 2549852 [PubMed - indexed for MEDLINE]

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Jul 25 2006 06:31:58

## Swope, Sheridan

---

**From:** Reynolds, Deborah  
**Sent:** Wednesday, July 26, 2006 4:25 PM  
**To:** Swope, Sheridan  
**Subject:** RE: 10/009, 571

Let it go.

-----Original Message-----

**From:** Swope, Sheridan  
**Sent:** Wednesday, July 26, 2006 4:21 PM  
**To:** Reynolds, Deborah  
**Subject:** 10/009, 571

Debbie,

Re the Oath:

The address was changed and dated but not initialed.

The oath was signed and dated the same day.

Would you let this go or object?

Thanks,

Sheridan

PS You did a good job at the R/E lecture; not sure why people are so hostile!!!

<< OLE Object: Picture (Device Independent Bitmap) >>

Sheridan Swope, Ph.D.  
Primary Patent Examiner  
AU 1656/Recombinant Enzymes  
571-272-0943 (voice)  
E02D19 Remsen Bld (Office)  
E03C70 Remsen Bld (Mailbox)  
Helping applicants get good patents.